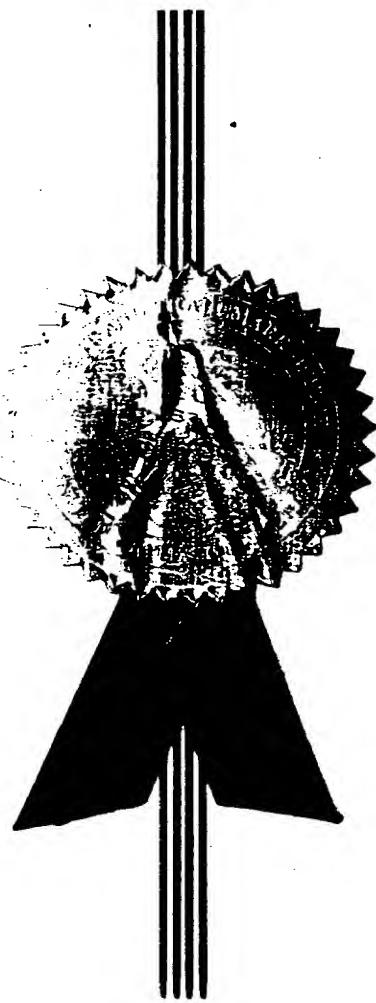


5,088,488

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# The United States of America



## The Commissioner of Patents and Trademarks

*Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.*

*Therefore, this*

## United States Patent

*Grants to the person or persons having title to this patent the right to exclude others from making, using or selling the invention throughout the United States of America for the term of seventeen years from the date of this patent, subject to the payment of maintenance fees as provided by law.*

*Harry F. Manbeck, Jr.*

Commissioner of Patents and Trademarks

*Linda O. Scott*

*Attest*

51475

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 5,088,484  
DATED : February 18, 1992  
INVENTOR(S) : Freeman, et. al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 3, line 19, delete "ion" and insert -- cast of the invention in position --.

Column 4, line 3, delete "30" and substitute -- 12 --.

Signed and Sealed this

First Day of February, 1994

Attest:

  
Sandra J. Morton

Attesting Officer

BRUCE LEHMAN

Commissioner of Patents and Trademarks